

Amendment Under 37 C.F.R. § 1.111
Serial No.: 10/522,135
SUGHRUE MION, PLLC Ref: Q85896

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A security lighting apparatus, which comprises:

 a human body detector for detecting a human body within a detection area;

 an illuminator for illuminating the detection area when a human body is detected;

 a time ~~zone~~period setting device for setting a specific time ~~zone~~period during which a security check must be made; and

 an alert device operable, when the human body is detected within the detection area during the specific time ~~zone~~period, to issue an alert to an intruder entering the detection area.

Claim 2 (original): The security lighting apparatus as claimed in Claim 1, wherein the alert device issues the alert by repeatedly turning the illuminator on and off.

Claim 3 (original): The security lighting apparatus as claimed in Claim 1, wherein the alert device issues the alert in the form of sounds or in the form of a combination of blinking of the illuminator and sounds.

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Claim 4 (currently amended): The security lighting apparatus as claimed in Claim

1, wherein the time ~~zone~~period setting device comprises:

a sunset detecting unit for detecting sunset;

a start time setting unit for setting a start time of the specific time ~~zone~~period as a length of time passed subsequent to sunset;

an end time setting unit for setting an end time of the specific time ~~zone~~period as a length of time passed subsequent to sunset: and

an elapsed time measuring unit for measuring a length of time passed from sunset.

Claim 5 (currently amended): The security lighting apparatus as claimed in Claim

1, wherein the time ~~zone~~period setting device comprises:

a sunset detecting unit for detecting sunset;

a sunrise detecting unit for detecting sunrise;

a start time setting unit for calculating a start time of the specific time ~~zone~~period to a midtime by calculating such midtime between sunset and sunrise;

an end time setting unit for setting an end time of the specific time ~~zone~~period as a length of time passed subsequent to the midtime; and

an elapsed time measuring unit for measuring a length of time passed from the midtime.

Claim 6 (currently amended): The security lighting apparatus as claimed in Claim

1, wherein the time ~~zone~~period setting device comprises:

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a sunset detecting unit for detecting sunset;

a sunrise detecting unit for detecting sunrise;

a past data accumulating unit for accumulating a predetermined number of past sunset/sunrise hours;

a start time setting unit for a start time of the specific time ~~zone~~period to a midtime by calculating such midtime between sunset and sunrise, which is averaged from the sunset/sunrise hours contained in the past data;

an end time setting unit for setting an end time of the specific time ~~zone~~period as a length of time passed from the midtime; and

an elapsed time measuring unit for measuring a length of time passed from the midtime.

Claim 7 (currently amended): The security lighting apparatus as claimed in Claim 1, wherein the time ~~zone~~period setting device comprises:

a clock for clocking;

a start time setting unit for setting a start time of the specific time ~~zone~~period; and

an end time setting unit for setting an end time of the specific time ~~zone~~period.

Claim 8 (currently amended): The security lighting apparatus as claimed in Claim 1, wherein the time ~~zone~~period setting device comprises:

a home return determining unit for determining a return of a house resident back to a house;

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a start time setting unit for setting a start time of the specific time ~~zone~~period as a confirmation hour at which it has been confirmed that all of house residents returned home;

an end time setting unit for setting an end time of the specific time ~~zone~~period, as a length of time passed from the confirmation hour; and

an elapsed time measuring unit for measuring a length time passed from the confirmation hour.

Claim 9 (original): The security lighting apparatus as claimed in Claim 1, further comprising at least a camera for taking a picture of the detection area when illuminating light from the illuminator blinks.

Claim 10 (previously presented): The security lighting apparatus as claimed in Claim 1, wherein the time zone setting device comprises:

a home return determining unit for determining the return of a house resident back to a house, and

a start time setting unit for setting a start time of the specific zone as a confirmation hour at which it has been confirmed that all of house residents returned home.